

WHAT IS CLAIMED IS:

1. A method for allocating a plurality of call resources during a conference call, the method comprising:

5 conducting a conference call between a plurality of clients using a first call resource;

 identifying a second call resource available to conduct the conference call; and

10 transferring the conference call from the first call resource to the second call resource without suspending communication of a plurality of mixed media streams received by the clients.

2. The method of Claim 1, wherein transferring comprises:

15 generating a first mixed media stream at the first call resource and a second mixed media stream at the second call resource;

20 modifying synchronization information in the second mixed media stream to match synchronization information in the first mixed media stream;

25 terminating the first mixed media stream to end communication with the first call resource upon confirming that the modified second mixed media stream is valid; and

 communicating the modified second mixed media stream to the clients.

3. The method of Claim 2, further comprising introducing a delay in a selected one of the first mixed media stream and the second mixed media stream to synchronize the first mixed media stream and the second
5 mixed media stream.

4. The method of Claim 2, wherein modifying synchronization information comprises:

10 instructing the second call resource to adjust synchronization information in the second mixed media stream; and
receiving the second mixed media stream with the
adjusted synchronization information.

15 5. The method of Claim 2, wherein synchronization information comprises at least a selected one of a timestamp and a sequence number.

6. The method of Claim 2, wherein:
20 the first mixed media stream comprises a first sequence of real-time transport protocol (RTP) packets;
the second mixed media stream comprises a second sequence of RTP packets; and
the modified second mixed media stream is valid when
25 the second sequence of RTP packets matches the first sequence of RTP packets.

7. The method of Claim 1, wherein the clients are unaware of the transfer of the conference call from the
30 first call resource to the second call resource.

8. The method of Claim 1, wherein:
conducting the conference call comprises:
communicating, to the first call resource, a
first media stream generated by a client participating in
5 the conference call; and
communicating, to the client, a first mixed
media stream received from the first call resource; and
transferring the conference call comprises:
duplicating the first media stream to create a
10 second media stream;
communicating the second media stream to the
second call resource;
receiving a second mixed media stream from the
second call resource;
15 terminating the first mixed media stream to end
communication with the first call resource upon
confirming that a modified second mixed media stream is
valid; and
communicating the modified second mixed media
20 stream to the client.

9. The method of Claim 8, further comprising:
instructing the second call resource to adjust
synchronization information in the second mixed media
25 stream; and
receiving the second mixed media stream with the
adjusted synchronization information.

10. A communication system, comprising:

a plurality of clients operable to couple to a packet-based network, the clients further operable to initiate or join a conference call;

5 a first call resource operable to couple to the packet-based network;

a second call resource operable to couple to the packet-based network at a different physical location than the first call resource; and

10 a media gateway operable to couple to the packet-based network, the media gateway further operable to transfer the conference call from the first call resource to the second call resource without suspending communication of a plurality of mixed media streams
15 received by the clients.

11. The communication system of Claim 10, wherein:

the first call resource is further operable to generate a first mixed media stream;

20 the second call resource is further operable to generate a second mixed media stream; and

the media gateway is further operable to:

modify synchronization information in the second mixed media stream to match synchronization
25 information in the first mixed media stream;

terminate the first mixed media stream to end communication with the first call resource upon confirming that the modified second mixed media stream is valid; and

30 communicate the modified second mixed media stream to the clients.

12. The communication system of Claim 11, wherein
the media gateway is further operable to introduce a
delay in a selected one of the first mixed media stream
and the second mixed media stream to synchronize the
5 first mixed media stream and the second mixed media
stream

13. The communication system of Claim 11, wherein
the media gateway modifies synchronization information
10 by:

instructing the second call resource to adjust synchronization information in the second mixed media stream; and

receiving the second mixed media stream with the
15 adjusted synchronization information.

14. The communication system of Claim 11, wherein the synchronization information comprises at least a selected one of a timestamp and a sequence number.

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15. The communication system of Claim 11, wherein
the first mixed media stream comprises a first
sequence of real-time transport protocol (RTP) packets;
the second mixed media stream comprises a second
sequence of RTP packets; and
25 the modified second mixed media stream is valid when
the second sequence of RTP packets matches the first
sequence of RTP packets.

16. The communication system of Claim 10, wherein the clients are unaware of the transfer of the conference call from the first call resource to the second call resource.

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17. The communication system of Claim 10, wherein: a client participating in the conference call is operable to communicate a first media stream to the first call resource;

10 the first call resource is further operable to communicate a first mixed media stream to the at least one client; and

the media gateway is further operable to:

15 duplicate the first media stream to create a second media stream;

communicate the second media stream to the second call resource;

receive a second mixed media stream from the second call resource;

20 terminate the first mixed media stream to end communication with the first call resource upon confirming that a modified second mixed media stream is valid; and

25 communicate the modified second mixed media stream to the clients.

18. The communication system of Claim 17, wherein the media gateway is further operable to:

instruct the second call resource to adjust synchronization information in the second mixed media stream; and

receive the second mixed media stream with the adjusted synchronization information.

19. The communication system of Claim 10, wherein
10 the plurality of clients are selected from a group
consisting essentially of a conventional telephone
coupled to the packet-based network via a gateway, a
wireless phone coupled to the packet-based network via
the gateway, an Internet Protocol (IP) phone or a
15 computer including a voice teleconferencing application.

20. The communication system of Claim 10, wherein the packet-based network comprises an Internet Protocol (IP) network.

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21. A media gateway, comprising:
an interface operable to couple to a communication
network, the interface further operable to receive media
streams communicated by a plurality of clients
5 participating in a conference call; and
a processing module coupled to the interface, the
processing module operable to transfer the conference
call from a first call resource to a second call resource
without suspending communication of a plurality of mixed
10 media streams received by the clients.

22. The media gateway of Claim 21, wherein the
processing module is further operable to:
receive a first mixed media stream generated by the
15 first call resource and a second mixed media stream
generated by the second call resource;
modify synchronization information in the second
mixed media stream to match synchronization information
in the first mixed media stream;
20 terminate the first mixed media stream to end
communication with the first call resource upon
confirming that the modified second mixed media stream is
valid; and
communicate the modified second mixed media stream
25 to the clients.

23. The media gateway of Claim 22, wherein the processing module is further operable to introduce a delay in a selected one of the first mixed media stream and the second mixed media stream to synchronize the 5 first mixed media stream and the second mixed media stream.

24. The media gateway of Claim 22, wherein the processing module modifies synchronization information 10 by:

instructing the second call resource to adjust synchronization information in the second mixed media stream; and

15 receiving the second mixed media stream with the adjusted synchronization information.

25. The media gateway of Claim 22, wherein the synchronization information comprises at least a selected one of a timestamp and a sequence number.

20 26. The media gateway of Claim 22, wherein:

the first mixed media stream comprises a first sequence of real-time transport protocol (RTP) packets;

25 the second mixed media stream comprises a second sequence of RTP packets; and

the modified second mixed media stream is valid when the second sequence of RTP packets matches the first sequence of RTP packets.

27. The media gateway of Claim 21, wherein the clients are unaware of the transfer of the conference call from the first call resource to the second call resource.

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28. The media gateway of Claim 21, wherein the processing module is further operable to:

communicate a first media stream generated by a client participating in the conference call to the first call resource;

communicate a first mixed media stream received from the first call resource to the client;

duplicate the first media stream to create a second media stream;

communicate the second media stream to the second call resource;

receive a second mixed media stream from the second call resource;

terminate the first mixed media stream to end communication with the first call resource upon confirming that a modified second mixed media stream is valid; and

communicate the modified second mixed media stream to the client.

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29. The media gateway of Claim 28, wherein the processing module is further operable to:

instruct the second call resource to adjust synchronization information in the second mixed media stream; and

receive the second mixed media stream with the adjusted synchronization information.

30. Logic encoded in media for allocating a plurality of call resources during a conference call and operable to perform the following steps:

conducting a conference call between a plurality of
5 clients using a first call resource;

identifying a second call resource available to
conduct the conference call; and

transferring the conference call from the first call
resource to the second call resource without suspending
10 communication of a plurality of mixed media streams
received by the clients.

31. The logic encoded in media of Claim 30, wherein
transferring comprises:

15 generating a first mixed media stream at the first
call resource and a second mixed media stream at the
second call resource;

modifying synchronization information in the second
mixed media stream to match synchronization information
20 in the first mixed media stream;

terminating the first mixed media stream to end
communication with the first call resource upon
confirming that the modified second mixed media stream is
valid; and

25 communicating the modified second mixed media stream
to the clients.

32. The logic encoded in media of Claim 31, further comprising introducing a delay in a selected one of the first mixed media stream and the second mixed media stream to synchronize the first mixed media stream and
5 the second mixed media stream.

33. The logic encoded in media of Claim 31, wherein modifying synchronization information comprises:

10 instructing the second call resource to adjust synchronization information in the second mixed media stream; and
receiving the second mixed media stream with the
adjusted synchronization information.

15 34. The logic encoded in media of Claim 31, wherein synchronization information comprises at least a selected one of a timestamp and a sequence number.

20 35. The logic encoded in media of Claim 31,
wherein:

the first mixed media stream comprises a first sequence of real-time transport protocol (RTP) packets;

the second mixed media stream comprises a second sequence of RTP packets; and

25 the modified second mixed media stream is valid when the second sequence of RTP packets matches the first sequence of RTP packets.

36. The logic encoded in media of Claim 30, wherein the clients are unaware of the transfer of the conference call from the first call resource to the second call resource.

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37. The logic encoded in media of Claim 30,
wherein:

conducting the conference call comprises:

communicating, to the first call resource, a
10 first media stream generated by a client participating in
the conference call; and

communicating, to the client, a first mixed media stream received from the first call resource; and

transferring the conference call comprises:

15 duplicating the first media stream to create a
second media stream;

communicating the second media stream to the second call resource;

20 receiving a second mixed media stream from the
second call resource;

terminating the first mixed media stream to end communication with the first call resource upon confirming that a modified second mixed media stream is valid; and

25 communicating the modified second mixed media
stream to the clients.

38. The logic encoded in media of Claim 37, further comprising:

instructing the second call resource to adjust synchronization information in the second mixed media stream; and

5 receiving the second mixed media stream with the adjusted synchronization information.

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39. An apparatus for allocating a plurality of call resources during a conference call, comprising:

means for conducting a conference call between a plurality of clients using a first call resource;

5 means for identifying a second call resource available to conduct the conference call; and

means for transferring the conference call from the first call resource to the second call resource without suspending communication of a plurality of mixed media streams received by the clients.

10 40. The apparatus of Claim 39, further comprising:
means for generating a first mixed media stream at
the first call resource and a second mixed media stream
15 at the second call resource;

means for modifying synchronization information in
the second mixed media stream to match synchronization
information in the first mixed media stream;

20 means for terminating the first mixed media stream
to end communication with the first call resource upon
confirming that the modified second mixed media stream is
valid; and

means for communicating the modified second mixed
media stream to the clients.

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